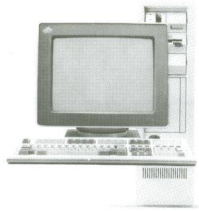
IBM

Personal System/2 Facts and Features

March 1992

PS/2

Personal System/2 model comparisons

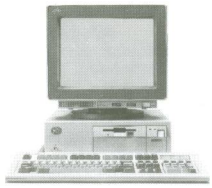


Model	95 XP 486	90 XP 486	80 386	P75 486	70 386
Machine numbers	8595-0H9, 0HF, 0KF	8590-0H5, 0H9, 0K9, 0KF	8580-161, A16, A31, 081	8573-161, 401	8570-161, A16, 081
Processor	80486[1]	80486[1]	80386	80486	80386/80486[2]
Coprocessor (optional)	Built-in[3]	Built-in[3]	80387	Built-in	80387
Speed (MHz)	25 (0H9, 0HF) 33 (0KF)	25 (0H5, 0H9) 33 (0K9, 0KF)	20 (081, 161) 25 (A16, A31)	33	20 (081, 161) 25 (A16)
Memory cache	8KB 256KB optional (0KF)	8KB 256KB optional (0K9, 0KF)	64KB (A16, A31)	8KB	64KB (A16)
Bus architecture	Micro Channel®	Micro Channel	Micro Channel	Micro Channel	Micro Channel
Data path	32-bit	32-bit	32-bit	32-bit	32-bit
User memory (RAM)[4]					
Standard–maximum on system board	8MB–64MB	4MB–64MB (0H5, 0H9) 8MB–64MB (0K9, 0KF)	4MB (081, 161) 4MB–8MB (A16, A31)	8MB–16MB	4MB–6MB (081, 161) 4MB–8MB (A16)
System maximum (addressable)	64MB	64MB	16MB	16MB	16MB
Integrated functions					
Parallel/serial/pointing device ports	Yes	Yes	Yes	Yes	Yes
Graphics	XGA	XGA	VGA	XGA	VGA
Display port	Yes	Yes	Yes	Yes	Yes
Built-in display	No	No	No	Yes—gas plasma	No
Disk/diskette controller	Yes	Yes	Yes	Yes	Yes
SCSI	Standard	Standard	Standard	Standard	Optional
Network adapter	Optional	Optional	Optional	Optional	Optional
Key lock	Yes	Yes	Yes	Yes	Yes
Clock/calendar	Yes	Yes	Yes	Yes	Yes
Security password	Yes	Yes	Yes	Yes	Yes
Diskette drives, 3.5-inch					
Capacity	1.44MB	1.44MB	1.44MB	1.44MB	1.44MB
Hard disk storage					
Standard–maximum (MB)	160–1.7GB (0H9) 400–2.0GB (0HF, 0KF)	80–880 (0H5) 160–960 (0H9, 0K9) 400–1.2GB (0KF)	80–1.04GB (081) 160–1.12GB (161, A16) 320–1.28GB (A31)	160 (161) 400 (401)	80 (081) 160 (161, A16)
Average seek time	16ms (160MB) 11.5ms (400MB)	17ms (80MB) 16ms (160MB) 11.5ms (400MB)	17ms (80MB) 16ms (160MB) 12.5ms (320MB)	16ms (160MB) 11.5ms (400MB)	16ms
Expansion slots (available)	6	3	7	4[7]	3
Power supply	329-watt	194-watt	225-watt 242-watt (A16, A31)	120-watt	132-watt
Operating systems					
DOS	3.3, 4.0, 5.0	3.3, 4.0, 5.0	3.3, 4.0, 5.0	3.3, 4.0, 5.0	3.3, 4.0, 5.0
Operating System/2®	SE, EE 1.2, 1.3, 2.0	SE, EE 1.2, 1.3, 2.0	SE, EE 1.2, 1.3, 2.0	SE, EE 1.2, 1.3, 2.0	SE, EE 1.2, 1.3, 2.0
AIX® Personal System/2®	1.2.1	1.2.1	1.2.1	1.2.1	1.2.1

P70 386	57 SLC/57 SX	56 SLC/56 SX
8573-121	8557-055, 059/ 8557-045, 049	8556-055, 059/ 8556-043, 045
80386 80387	386SLC/80386 SX 80387 SX/PS/2® Cached Processor Option	386SLC/80386 SX 80387 SX/PS/2 Cached Processor Option
20	20	20
None	8KB/None	8KB/None
Micro Channel 32-bit	Micro Channel 16-bit	Micro Channel 16-bit
4MB–8MB	4MB–16MB[5]	4MB–16MB[5]
16MB	16MB	16MB
Yes VGA Yes Yes—gas plasma Yes Optional Optional No Yes Yes	Yes VGA Yes No Yes Yes Optional Yes Yes Yes	Yes VGA Yes No Yes Yes Optional Yes Yes Yes
1.44MB	2.88MB[6]	2.88MB[6]
120 23ms	80–880 (045, 055) 160–1,120 (049, 059) 17ms (80MB) 16ms (160MB)	40 (043) 80 (045, 055) 160 (059) 17ms
2[8]	5	3
85-watt	197-watt	118-watt
3.3, 4.0, 5.0 SE, EE 1.2, 1.3, 2.0 1.2.1	5.0 SE, EE 1.30.1, 2.0 1.2.1	5.0 SE, EE 1.30.1, 2.0 1.2.1.

Personal System/2 model comparisons

Model	56 SLC LS/56 LS	CL57 SX
Machine numbers	8556-15X, 25X/ 8556-14X, 24X	8554-045
Processor	386SLC/80386 SX	80386 SX
Coprocessor (optional)	80387 SX/PS/2 Cached Processor Option	Socket
Speed (MHz)	20	20
Memory cache	8KB/None	None
Bus architecture Data path	Micro Channel 16-bit	Micro Channel 16-bit
User memory (RAM)[4] Standard–maximum on system board	4MB–16MB[5]	2MB–18MB
System maximum (addressable)	16MB	18MB
Integrated functions Parallel/serial/pointing device ports Graphics Display port Built-in display Disk/diskette controller SCSI Network adapter	Yes VGA Yes No Yes Yes Token-Ring or Ethernet	Yes VGA Yes Yes—TFT Yes No Optional
Key lock Clock/calendar Security password	Yes Yes Yes	No Yes Yes
Diskette drives, 3.5-inch Capacity	2.88MB[6]	1.44MB
Hard disk storage Standard–maximum (MB)	0–400	80
Average seek time	17ms	17ms
Expansion slots (available)	2	None[10]
Power supply	118-watt	Rechargeable battery pack; AC adapter
Operating systems DOS	5.0	3.3, 4.0, 5.0, J5.02/V
Operating System/2 AIX Personal System/2	SE, EE 1.30.1, 2.0[9] 1.2.1	2.0 No



N51 SLC/N51 SX	L40 SX	40 SX	35 SX	35 LS
8551-025/ 8551-033	8543-044	8540-040, 043, 045	8535-040, 043, 4B1, 4B2	8535-14X, 24X
386SLC/ 80386 SX	80386 SX	80386 SX	80386 SX	80386 SX
None	Socket	Socket	Socket	Socket
16	20	20	20	20
8KB/None	None	None	None	None
Micro Channel 16-bit	AT® 16-bit	AT 16-bit	AT 16-bit	AT 16-bit
2MB–10MB	2MB–18MB	2MB–16MB	2MB–16MB	2MB–16MB
10MB	18MB	16MB	16MB	16MB
Yes VGA Yes Yes—LCD Yes No Optional	Yes VGA Yes Yes—LCD Yes No Optional[12]	Yes VGA Yes No Yes Optional Optional	Yes VGA Yes No[14] Yes Optional Optional	Yes VGA Yes No Yes Optional Token-Ring or Ethernet
No Yes Yes	No Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
1.44MB	1.44MB	1.44MB or 2.88MB[6]	1.44MB or 2.88MB[6]	1.44MB or 2.88MB[6]
40 (033) 80 (025) 19ms (40MB)	60	0–80 (040) 40–120 (043) 80–160 (045)	0–80 (040) 40 (043, 4B1) 80 (4B2)	0–80
17ms (80MB)	19ms	17ms	17ms	17ms
None[11]	None[13]	5	3	2
Rechargeable battery pack; AC adapter	Rechargeable battery pack; AC adapter	197-watt	118-watt	118-watt
3.3, 4.0, 5.0, J5.02/V SE, EE 1.30.1, 2.0 No	3.3, 4.0, 5.0 SE, EE 1.30.1, 2.0 No	3.3, 4.0, 5.0 SE, EE 1.30.1, 2.0 No	3.3, 4.0, 5.0 SE, EE 1.30.1, 2.0 No	3.3, 4.0, 5.0 SE, EE 1.30.1, 2.0[9] No

Personal System/2 model comparisons

Model	25 286	25
Machine numbers	8525-006, G06, 036, G36	8525-001, 004, G01, G04, L01, L04
Processor	80286	8086
Coprocessor (optional)	80287	8087
Speed (MHz)	10	8
Memory cache	None	None
Bus architecture	AT	PC
Data path	16-bit	8-bit
User memory (RAM)[4]		
Standard–maximum on system board	1MB–4MB	512KB–640KB 640KB (L01, L04)
System maximum (addressable)	16MB[15]	640KB
Integrated functions		
Parallel/serial/pointing device ports	Yes	Yes
Graphics	VGA	MCGA
Display port	No	No
Built-in display	Yes	Yes
Disk/diskette controller	Yes	Yes
SCSI	Optional	Optional
Network adapter	Optional	Optional
Key lock	Yes (036, G36)[16]	Yes
Clock/calendar	Yes	No
Security password	Yes	No
Diskette drives, 3.5-inch		
Capacity	1.44MB	720KB
Hard disk storage		
Standard–maximum (MB)	0–30 (006, G06)[17] 30 (036, G36)	0–20
Average seek time	27ms (30MB)	80ms
Expansion slots (available)	2[8]	2[8]
Power supply	124.5-watt	90-watt (001, G01, L01) 115-watt (004, G04, L04)
Operating systems		
DOS	3.3, 4.0, 5.0	3.3, 4.0, 5.0
Operating System/2	SE, EE 1.3	No
AIX Personal System/2	No	No

Personal System/2 display comparisons

Display	**6091-019** color	**8518** color	**8516** touch screen	**8515** color	**8514** color
Screen size (diagonal)	19"	14"	14"	14"	16"
Viewing area	13.5" x 10.8"	9.8" x 7.4"	9.8" x 7.4"	9.8" x 7.4"	11.1" x 8.3"
Maximum resolution (pels)	1,280 x 1,024	640 x 480	1,024 x 768	1,024 x 768	1,024 x 768
Touch resolution	—	—	4,096 x 4,096 points	—	—
Scan frequency	62 kHz	31.5 kHz	35.5 kHz	35.5 kHz	35.5 kHz
Refresh rate	Up to 67 Hz	Up to 70 Hz	Up to 70 Hz	Up to 70 Hz	Up to 70 Hz
Pels per inch	92 at 1,280 x 1,024	65 at 640 x 480	104 at 1,024 x 768	104 at 1,024 x 768	91 at 1,024 x 768
Dimensions	18.9"W x 19.2"D x 19.1"H	14.0"W x 15.3"D x 13.6"H	14.0"W x 15.3"D x 13.6"H	14.0"W x 15.3"D x 13.6"H	15.8"W x 16.3"D x 14.2"H
Weight	Approx. 74.9 lbs.	Approx. 28.6 lbs.	Approx. 31.9 lbs.	Approx. 28.6 lbs.	Approx. 41.9 lbs.
Recommended for	—	VGA	VGA or XGA[18]	VGA or XGA[18]	VGA or XGA[18]
Requires	PS/2 Image Adapter/A	—	—	—	—

8512 color	**8508** monochrome	**8504** monochrome
14″	19″	12″
9.4″ x 7.1″	14″ x 10.5″	8.2″ x 6.2″
640 x 480	1,600 x 1,200	640 x 480
–	–	–
31.5 kHz	70 kHz	31.5 kHz
Up to 70 Hz	Up to 93.5 Hz	Up to 70 Hz
67 at 640 x 480	114 at 1,600 x 1,200	77 at 640 x 480
14.0″W x 15.5″D x 12.0″H	18.8″W x 17″D x 17.8″H	12″W x 12.1″D x 11.5″H
Approx. 33 lbs.	Approx. 51.7 lbs.	Approx. 16.5 lbs.
VGA	–	VGA
–	PS/2 Image Adapter/A	–

Footnotes

[1] 80486 SX microprocessors on 0Hx models.
[2] Processor upgrade (A16).
[3] 25 MHz (0Hx) models do not have a built-in coprocessor function; however, a math coprocessor 487 SX optional feature is available.
[4] 128KB of this memory is reserved for hardware system use on Models P70 386 and 70 386.
[5] The system reserves 128KB of memory when BIOS/POST is copied to RAM for execution with less than 16MB of planar memory. The system reserves 1.375MB of memory in systems with 16MB of planar memory.
[6] DOS 5.0 is required to support the 2.88MB diskette drive.
[7] Two full-size; two half-size.
[8] One full-size, one half-size; 8525-L01, L04 models use half-size slot for Token-Ring Adapter.
[9] OS/2 LAN Server 2.0 provides DOS and OS/2 client support for Remote Program Load in Token-Ring and Ethernet networks.
[10] Has a SCSI port instead.
[11] Has an external communications option instead.
[12] IBM intends to provide connectivity to IBM networks using the L40 SX's external expansion port and Personal Computer AT versions of the 3278/3279 Emulation Adapter, the 5250 Emulation Adapter, and the Token-Ring Network 16/4 Adapter.
[13] Has an AT bus external expansion port instead.
[14] Includes IBM 8512 (4B1) or 8511 (4B2) Color Display.
[15] Achieving this configuration requires installation of non-IBM memory cards.
[16] Secures fixed disk only.
[17] Second diskette drive and fixed disk are mutually exclusive.
[18] XGA provides support for more than 16 colors or gray shades.
[19] Models 57 SX, 56 SX and 56 LS only.
[20] Not supported on Models 8556-14X and 15X.
[21] Requires OS/2 EE 1.32J.

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IBM PS/2 options

Model	Part no.*	95 XP 486	90 XP 486	80 386
Processors/coprocessors				
486/25 Power Platform (upgrade)	6450876			
PS/2 Wizard Adapter	64F7351	■	■	■
486 SX Processor Upgrade	6450759	■	■	
486/50 Processor Upgrade	6450757	■	■	
487/20–25 MHz Math Co-Processor	6451243	■	■	
PS/2 Cached Processor Option	6451231			
Storage devices				
3.5-inch 1.44MB Diskette Drive	**	■	■	■
3.5-inch 2.88MB Diskette Drive	6451106			
5.25-inch Internal Diskette Drive	**	■	■	■
5.25-inch External Diskette Drive (360KB or 1.2MB)	4869001/2	■	■	■
80, 160 or 400MB SCSI Fixed Disk	**	■	■	■
CD-ROM II Drive	6451104	■	■	■
2.3GB SCSI Tape Drive	6451121	■		
Internal Tape Backup Unit	30F5279	■	■	■
SCSI Storage Enclosure	35100V0	■	■	■
External Enclosure for SCSI Devices	3511003	■	■	■
3.5-inch Rewritable Optical Drive	6450162	■	■	■
Connectivity				
Token-Ring Network Adapters and related features	**	■	■	■
Adapter/A for Ethernet Networks	6451091	■	■	■
PC Network Broadband Adapter II/A	1501222	■	■	■
PC Network Adapter II/A Frequency 2, 3	96X5647/8	■	■	■
PC Network Baseband Adapter/A	1501223	■	■	■
Multi-Protocol Adapter/A	6451114	■	■	■
Dual Async Adapter/A	6451013	■	■	■
X.25 Interface Co-Processor/2	16F1858	■	■	■
300/1200/2400 Internal Modem/A	94X1755	■	■	■
3270 Connection	74F3465	■	■	■
Display Station Emulation Adapter/A	92X0743	■	■	■
SCSI Adapter with Cache	6451133	■	■	■
Graphics/multimedia/other features				
Display Adapter 8514/A	1887972			■
XGA Display Adapter/A	75X5887	■	■	■
Image Adapter/A	***	■	■	■
M-Audio Capture/Playback Adapter/A	92F3379	■	■	■
Video Capture Adapter/A	92F3380	■	■	■
Enhanced M-Motion Video Adapter/A	95F1091	■	■	■
Printers/plotters/scanners				
The following are supported on all models: Proprinter® 24P, Personal Printer Series II, LaserPrinter family, 3816 Page Printer, ExecJet,™ PS/1™ Printer, 618X Color Plotter. Th				
The 2456 Image Scanner is supported on all PS/2 models with Micro Channel SCSI adapter.				

P75 486	70 386	P70 386	57 SLC/57 SX
	■[2]		
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			■[19]
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The 3119 PageScanner is supported on Models 50 and above.

IBM PS/2 options

Model	Part no.*
Processors/coprocessors	
PS/2 Cached Processor Option	6451231
Storage devices	
3.5-inch 1.44MB Diskette Drive	**
3.5-inch 2.88MB Diskette Drive	6451106
5.25-inch Internal Diskette Drive	**
5.25-inch External Diskette Drive (360KB or 1.2MB)	4869001/2
40 or 80MB Fixed Disk	**
80, 160 or 400MB SCSI Fixed Disk	**
CD-ROM II Drive	6451104
SCSI Storage Enclosure	35100V0
External Enclosure for SCSI Devices	3511003
3.5-inch Rewritable Optical Drive	6450162
Connectivity	
Token-Ring Network Adapters and related features	**
Adapter/A for Ethernet Networks	6451091
Multi-Protocol Adapter/A	6451114
SDLC Communications Adapter	1501205
300/1200/2400 Internal Modem/A	94X1755
Serial/Parallel Adapter	6450215
Serial Adapter	79F0979
3278/79 Emulation Adapter	53F6425
3270 Connection	**
Enhanced 5250 Emulation Adapter Kit	**
SCSI Adapter with Cache	6451133
Graphics/multimedia/other features	
Display Adapter 8514/A	1887972
XGA Display Adapter/A	75X5887
M-Audio Capture/Playback Adapter or Adapter/A	92F3378/9
Enhanced M-Motion Video Adapter/A	95F1091
Japanese Display Adapter[21]	07G1450
Japanese Keyboard[21]	07G1351
Car Battery Adapter	79F1012
Quick Charger	79F0192
External Rechargeable Power Pack	**
Carrying Case	**
PS/2 Cable Cover	95F5610
Printers/plotters/scanners	
The following are supported on all models: Proprinter 24P, Personal Prin The 2456 Image Scanner is supported on all PS/2 models with Micro Ch	

56 SLC/56 SX	56 SLC LS/56 LS	CL57 SX	N51 SLC/ N51 SX	L40 SX	40 SX
■[19]	■[19]				
■	■				■
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Printer Series II, LaserPrinter family, 3816 Page Printer, ExecJet, PS/1 Printer, 618X Color Plotter. The 3119 PageScanner is supported on Models 50 and above.
Channel SCSI adapter.

IBM PS/2 options

Model	Part no.*	35 SX	35 LS	25 286	25
Memory					
128KB Memory Expansion	78X8955				■
2MB Memory Module Kit/85ns	**	■	■		
2, 4, 8MB Memory Module Kits/80ns	**	■	■		
2, 4, 8MB Memory Module Kits/70ns	**	■	■		
Storage devices					
3.5-inch 1.44MB Diskette Drive	**	■	■	■	
3.5-inch 2.88MB Diskette Drive	6451106	■	■		
5.25-inch Internal Diskette Drive	**	■	■		
5.25-inch External Diskette Drive (360KB)	4869001	■	■	■	■
20MB Fixed Disk	**			■	■
30MB Fixed Disk	**			■	
40MB Fixed Disk	**	■	■		
80MB Fixed Disk	**	■	■		
Connectivity					
Token-Ring Network Adapter II	25F9858	■	■	■	■
Token-Ring Network 16/4 Adapter	25F7367	■	■	■	■
Token-Ring Network 16/4 Trace and Performance Adapter	74F5121			■	
PC Network Broadband Adapter II	1501220	■	■	■	■
PC Network Adapter II Frequency 2, 3	96X5645/6			■	■
PC Network Baseband Adapter	1501221	■	■	■	■
BSC Communications Adapter	1501204				■
SDLC Communications Adapter	1501205	■	■	■	■
Serial/Parallel Adapter	6450215	■		■	■
3278/79 Emulation Adapter	53F6425	■	■	■	■
Enhanced 5250 Emulation Adapter Kit	30F5383	■	■	■	■
Display Station Emulation Adapter	92X0813	■	■	■	■
Graphics/multimedia/other features					
M-Audio Capture/Playback Adapter	92F3378	■	■	■	■
PS/2 Cable Cover	95F5610	■			
Printers/plotters/scanners					
The following are supported on all models: Proprinter 24P, Personal Printer Series II, LaserPrinter family, 3816 Page Printer, ExecJet, PS/1 Printer, 618X Color Plotter.					

Additional cards and options are available—consult your IBM marketing representative or IBM Authorized Dealer.
*Other part numbers may be required to support a specific device or function.
**There is more than one part number for this type of device, depending on specific systems supported.
***There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.

IBM PS/2 display options

Display	Part no.	6091-019	8518	8516	8515	8514	8512	8508	8504
XGA Display Adapter/A	75X5887	■	■	■	■	■	■	■	■
Video Memory for XGA Adapter	75X5889	■	■	■	■	■	■	■	■
PS/2 TV	2460001	■	■	■	■	■	■	■	■
Image Adapter/A 1MB	44F9914							■	
Image Adapter/A 3MB	44F9919							■	
Image Adapter/A 3MB 6091	44F9921	■							
Memory Expansion for Image Adapter/A	07F4406							■	
Video Memory Kit for Image Adapter/A	7545889							■	
Printer/Scanner Option	07F4402	■						■	
OEM Scanner Cable	07F4410	■						■	
3812-002 Pageprinter Cable	07F4412	■						■	
4216-020 Personal Pageprinter Cable	07FMM21	■						■	
3812-002 ImagePlus® Feature	07F4050	■						■	
ImagePlus Workstation Program for DOS	07F4024	■						■	
ImagePlus Workstation Program for OS/2®	07F4027	■						■	

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